

Multi-function Portable HD LCD Monitor



User Manual

Product description:

Multi-Function Portable HD LCD Monitor is integrated circuit, high-grade LCD Panel and high-capacitive built-in battery! It features video output, special features, widely used, small size, easy Operation, portable!

Application for ground station, CCTV security, baby monitor, on-camera field monitor, construction site video surveillance, advertising and other venues.

This monitor is built-in lipobtttery; external battery plate and DC power adapter are optional!



To insure best use of the unit, please read the user's manual carefully.

CAUTION

1. Do not use any damaged or leaking battery and please replace the Battery immediately if it's working life becomes short significantly
2. Do not expose this product to direct sunlight, heat or humid conditions
3. Keep away from strong light while using this product so as to obtain the clearest and the most colorful picture. Please use sun shade for the outdoor necessary
4. Please avoid heavy impact or drop on the ground.
5. Do not use chemical solutions to clean this unit. Please simply wipe with a clean soft cloth to keep the brightness of the surface.
6. Without adjustable component in the unit, please do not take apart or repair the unit by yourself, to avoid damage the product.

Product feature:

- **High brightness, contrast, anti-glare screen with a sun Shade, sun clearly visible**
- **With VIDEO input, output, HDMI input, suitable for a Variety of sources. Can be used as video, photography Viewfinder, advertising machine.**
- **Color Control Systems support, enter the menu to manually Select the appropriate format, and adaptable**
- **Front head phone monitor playback audio effects**
- **Build-in battery and rear battery plate, can be equipped with A variety of battery, No power to facilitate use of the site in country**
- **With VIDEO signal output function, can be used as video Playback DVR host, connecting multiple monitors.**
- **Check Field**
- **Picture Screen Markers and Center Marker**

CONTENTS

1. Product description	3
2. Operation instruction	5
3. Sun shade installation and remove	9
4. Power Supply	11
5. Parameters	14
6. Trouble shooting	15

1.Product description:

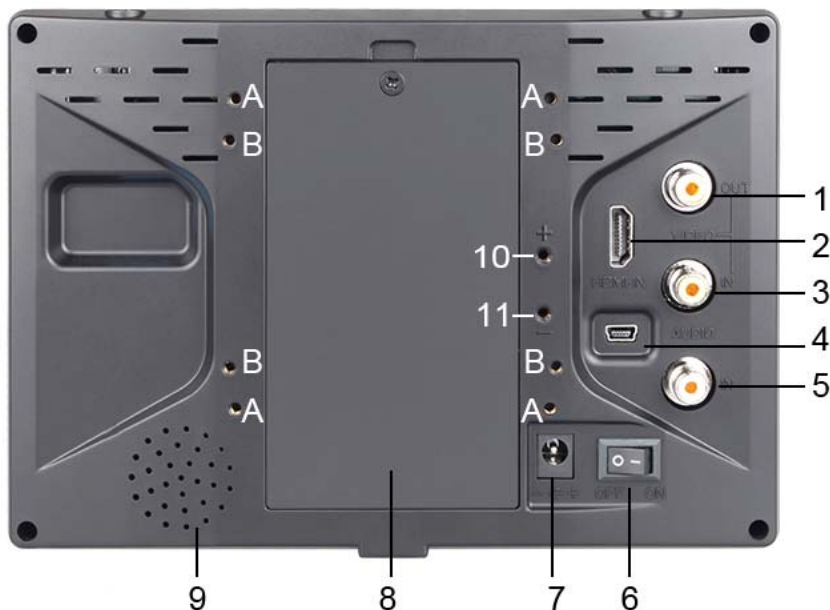
1.1 Front panel instruction:



- 1、 Power/Battery indicator
- 2、 **POWER:** Standby button
- 3、 **MODE:** Input Signal selection button

- 4、 **UP**: UP button, up an option
- 5、 **DOWN**: Down button, down one option
- 6、 **MENU**: Menu key
- 7、 **RIGHT**: Volume up, press this key to increase the volume control, Menu item selection for settings adjustment
- 8、 **LEFT**: Center Marker or volume down, Press this button to on/off center marker; if want to turn down the volume, press “RIGHT” firstly and then use “LEFT” to be adjusted. Menu item selection for settings adjustment
- 9、 **SCALE**: SCALE on and settings
- 10、 **CAMERA**: CAMERA mode on/off
- 11、 **FOCUS**: FOCUS on/off
- 12、 : Stereo earphone jack
- 13、 LED screen

1.2 Rear battery plate instruction:

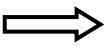


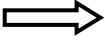
1. **VIDEO OUT**: Composite video signal output

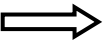
2. **HDMI**: HD HDMI signal input
3. **VIDEO IN**: Composite video signal input
4. USB data ungraded port
5. **AUDIO IN**: Audio signal input
6. Power switch “—” Indicates that the power is turned, “○” means Disconnect the power
7. Power input jack 
8. Battery Pack
9. Speaker
- 10、11: it is a screw hole for battery plate, when you use battery external, 10 is “+”, 11 is “-”, Copper Screw size: M3×9.5mm
- A: Battery plate locking screw hole, 4 holes, Copper Screw size: M3×5.0mm
- B: 75×75mm VESA, Screw size: M4×5.0mm

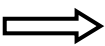
2. Operation instruction:

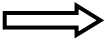
2.1 Operation instruction:

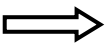
POWER  Standby button

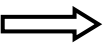
MODE  Input Signal switch button

UP  button, up an option

DOWN  button, down one option

MENU  key

RIGHT  Volume up, press this key to increase the volume control, Menu item selection for settings adjustment

LEFT  Center Marker or volume down, Press this button to on/off center marker; if want to turn down the volume,

press “**RIGHT**” firstly and then use “**LEFT**” to be adjusted.

Menu item selection for settings adjustment

SCALE ➡ on and settings

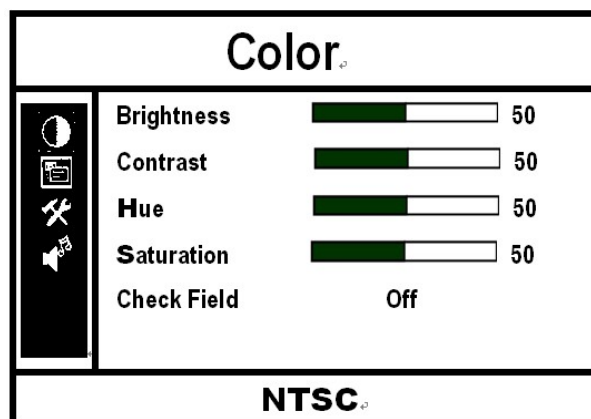
CAMERA ➡ mode on/off

FOCUS ➡ on/off

2、 2 Menu instructions

Press “**MENU**” to enter the menu, use the “**DOWN**” or “**UP**” button to select color, Menu, function, volume, press the “**MENU**” to confirm, then it will enter next operation, use the “**DOWN**” or “**up**” to select optional press the “**MENU**” to confirm again, use the “**DOWN**” or “**UP**” to adjust or select the parameter. Press the “**MENU**” to confirm after you finish the setting. Press the “**MENU**” to exit the OSD menu

COLOR



※ **Brightness:** To adjust the image's brightness.

※ **Contrast:** To adjust the brightest and darkest ratio of the image, please note the sense of picture when adjust, proportion too large or small, will make the picture lose the color of showy.

- ※ **Hue:** On NTSC Video mode, the image color tint difference is Adjustable by tint.
- ※ **Saturation:** To adjust color concentration
- ※ **Check Field:** Switch on/off Check Field (Red、Green、Blue Monochromatic and Color)



OSD

OSD	
Language	English
H Position	50
V Position	50
OSD Timeout	Off
Transparent	Off
NTSC	

OSD	
Language	English 简体中文 Francois Italiano Deutsch Español 日本語 한국의 Pycc Portuguesa
H Position	
V Position	
OSD Timeout	
Transparent	
NTSC	

- ※ **Language:** Languages for OSD as below:

**English、简体中文、Francois、Italia no、Deutsch
Español、日本語、 한국의、 Pycc、 Portuguesa**

- ※ **H Position:** To adjust the OSD position in horizontal.
- ※ **V Position:** To adjust the OSD position in vertical.
- ※ **OSD Timeout:** To adjust the clock.
- ※ **Transparent:** To adjust the level of transparent.



Function

Function		
	Reset	
	System	NTSC M
	Display Ratio	16: 9
	Screen Markers	90 %
	Centre Markers	Off
	Camera	Off
NTSC		

※ **Reset:** Back to original setting.

※ **System:** To adjust color video format.

Function		
	Reset	
	System	▶ NTSC M PAL M NTSC BG PAL N NTSC DK PAL DK PAL I SECAM BG
	Display Ratio	
	Screen Markers	
	Centre Markers	
	Camera	Off
NTSC		

※ **Display Ratio:** To change the display ratio 16:9/4:3.

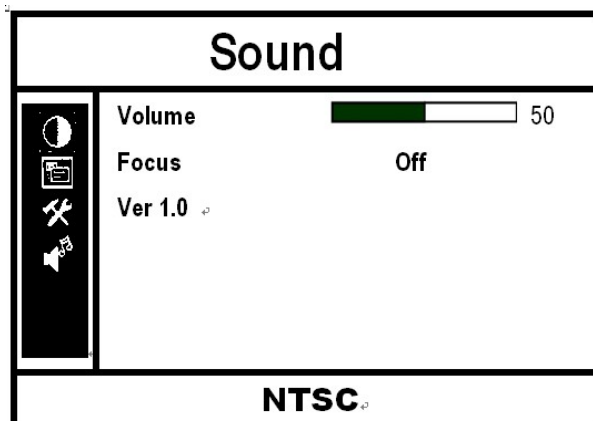
※ **Screen Markers:** To adjust screen marker (off, 96%, 93%, 90%, 85%, 80%)

※ **Centre Markers:** To set centre mark (cross mark) display

※ **Camera :** Use the Canon 5 d II or similar camera, the monitor video has real-time images. NO black screen, NO delay, perfect without distortion.



Sound



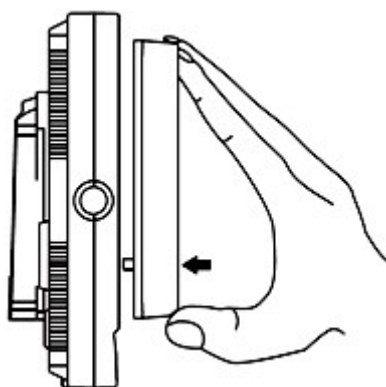
※ **Volume**: To adjust the volume.

※ **Focus** : As an auxiliary functions (in HDMI mode) when used as the camera viewfinder.

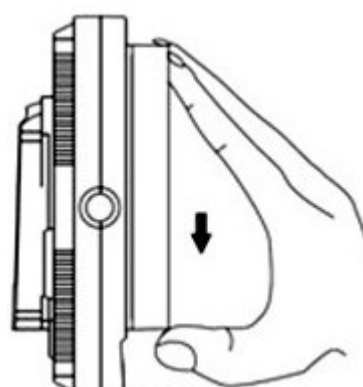
※ **Ver.1.0**: Software version number

3. Sun shade installation and remove

3.1 Installation: Positive parallel alignment of the sun shade and monitor, the projection of the sun shade hanging claw at the monitor sun shade slot (see the monitor front view marked 17), pay attention to the position should be aligned around inserted balanced slide down.



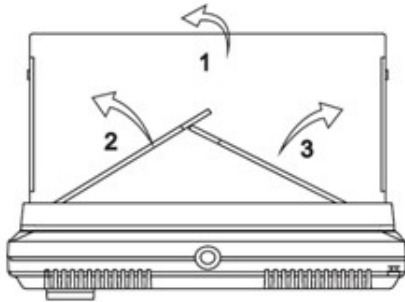
①



②

● Sun shade installation view

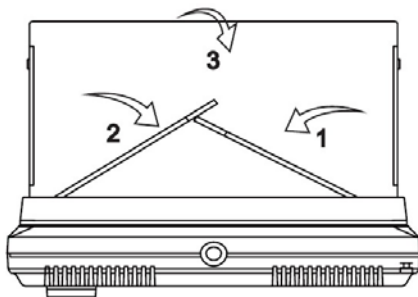
- ① the sun shade's hanging claw and the monitor's sun shade slot should be aligned around inserted balanced to slide down.
- ② By equilibrium of sliding down to match up the sun shade and monitor.
- ③ Please follow steps, otherwise will damage the cover, please do not press the L/R panel of the sun shade, if not, unable open the cover.



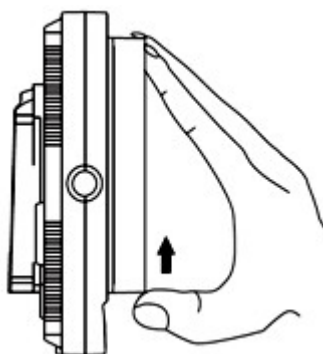
③

3.2 Remove: When you want to shade cover is removed from the monitor, hands were clenched monitor and the sun shade, drag up shade cover from monitor that separates the sun shade from the monitor.

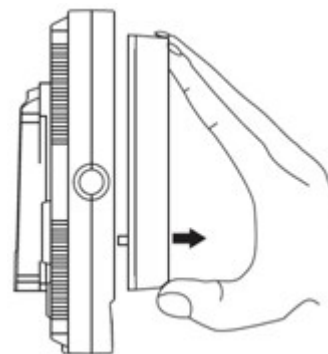
● Remove sun shade view:



①



②



③

- ① In accordance with the instructions below steps, close the sun shade in sequence
- ② Drag up sun shade balanced to separates the sun shade from the monitor.
- ③ Remove the sun shade

4. Power Supply

There are three versions for power supply:

4.1 Supply by city electricity with power adapter

When the monitor connect the electricity by DC power adapter, red light is illuminated, means is charging, after fully charged, then switch to green light.

When the power switch is on “—”, the monitor is in operation mode, green light is illuminated. If the built-in battery is not fully charged , it still continue to charge the battery, until the battery is full.

To use power adapter supply , it can choose the power adapter(optional) , which matches to the monitor. If the customer need to use the other power adapter, please use the qualified power supply in DC9-18V, $\geq 1.5A$.

4.2 Built-in Battery Power Supply

This model is built-in Li-ion battery capacity: 7.4V-2200mA/h (2Hours) ,after fully-charged, it lasts to work 2 hours.

4.3 External Battery Plate to install battery

When no electricity, in order to longer the battery working hour, the user can install the external battery plate (optional) with battery to supply the monitor power.

When install the external battery plate, please follow“1.2 rearview”Please use the M3×9.5mm copper screw to fasten the two power output cables into NO.12.13 at the back of monitor.When screwing, please pay attention to the polarity, 12 is +; 13 is -.Then match the 4 screw holes of plates to A point at the back of monitor,And use M3×5.0mm copper screw to fasten the plate and monitor.

4. 4 **Battery Plate:**



F970



LP-E6



D28

According to the different requirements of battery for the customers attached different battery plate slots. NO requirements, the factory defaults assembly F970 battery plate.

- F970 battery slot for battery of Sony DV
Sony F970 F960 F950 T930 F770 T750 F730 F570 F550 F530
QM91D QM91 QM90D QM90 QM71D QM71 QM70D QM70
QM51D QM51 FM71 FM70 series
- LP-E6 battery slot for battery of Canon DV
Canon LP-E6
- D28 battery slot for battery of Panasonic DV
Panasonic D55 D54S D54SE D40 D35 D33 D32 D28 D25 D22
series

- Three types of batteries corresponding to the upper three slots



F970



LP-E6



D28

Different specifications of the battery, capability is different. The working time for the monitor will be different. Higher capability (working time) will be longer.

4.5 Li-ion Battery

- The working temperature of Li-ion battery is $-20\sim 60^{\circ}\text{C}$, please don't use battery in the place with temperature too low or too high. The power of battery will be reduced if it is working in a low temperature environment. Please don't use the battery in a high temperature environment, may cause battery swell then fire. Please check the temperature of battery when it is working in a high temperature environment.
- Over-charge and over-discharge, it will cause permanent damage to the positive pole and negative pole of batteries.
No need over discharge then rechargeable every time.
- Period of time to do a deep charge and discharge the battery under the protection circuit control to correct the consumption statistics, but it will not improve your battery's actual capacity

- Please be placed in a cool place to weaken the passivation speed of battery, if you don't use the battery for long time.
- Please charge power stored in the battery to prevent self-discharge of excessive lead to excessive discharge damage if you don't use the battery for long time.

5. Parameters

Panel size	TFT LCD 7.0inch
Panel type	TFT LCD
Resolution	1024×600×RGB = 1843200 Pixels
Backlight	LED
Dot pitch	0.05(W) x 0.15 (H)
Display ratio	16:9
Brightness	450 cd/m ²
Contrast ratio	700:1
Response time	10ms
Viewing angle	75°/75°(L/R) 70°/75°(U/D)
Input signal	Video/Audio/RF/HDMI
Output signal	Video
Video color system	PAL-4.43 / NTSC-3.58
HDMI support format	480i /480p /576i /576p 720p /1080i /1080p (50/60Hz)
Headphone output	stereo 3.5mm
Input voltage	DC:9~15V
Power consumption	≦ 13W
Unit size	189(L)x144(W)x37(H)mm

Weight	540g (Including the Li-ion battery, but without battery plate)
Built-in battery	Li-ion 7.4V/2200 mA/h
Install Way	1. "1/4"-20 Thread mounting socket, 2.75×75mm VESA
Working Temperature	-20 ~ 50℃
storage Temperature	-30 ~ 65℃

6. Trouble shooting

6.1 Only black and white or monochrome picture

- ① Please check saturation、brightness & contrast adjustment.
- ② Please check monitor's "color" from the menu "monochrome" is in black and white or monochrome image or other condition.

6.2 NO picture after put on the power

- ① Check signal cable contact are in good condition, a monitor is synchronized with the input signal, and can press the "SOURCE/EXIT" give it a try. If in the RF channel, please check to see if the transmitter has been work.
- ② Check signal cable connecting, and make sure use the standard adapter connect the monitor. If power supply by battery, please check the battery whether fully charged.

6.3 Images are not synchronized

- ① can enter the monitor "function" menu, and select the right video format in the "format" option.

6.4 No sound

- ① Check if the volume is on or try to turn up the volume through
“**RIGHT**” button
- ② Check the Audio input

- Remark: If there are still other problems, please contact with our
Related deals.

★ if there are changes without prior notice.